

OCCUPIED BANDWIDTH

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/12/2013	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2013	24

TEST DESCRIPTION

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.9% (approximate 26 dB) emission bandwidth (EBW) was also measured at the same time.

The EUT was set to low, medium and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.



OCCUPIED BANDWIDTH

XMit 2013.08.15
PsaTx 2014.03.28

EUT: TH8732WF		Work Order: HNYW0061
Serial Number: 82302010004324		Date: 04/01/14
Customer: Honeywell International, Inc.		Temperature: 23.2°C
Attendees: None		Humidity: 20%
Project: None		Barometric Pres.: 1016.9
Tested by: Trevor Buls	Power: 110VAC/60Hz	Job Site: MN05

TEST SPECIFICATIONS		Test Method
FCC 15.247:2014		ANSI C63.10:2009

COMMENTS
None

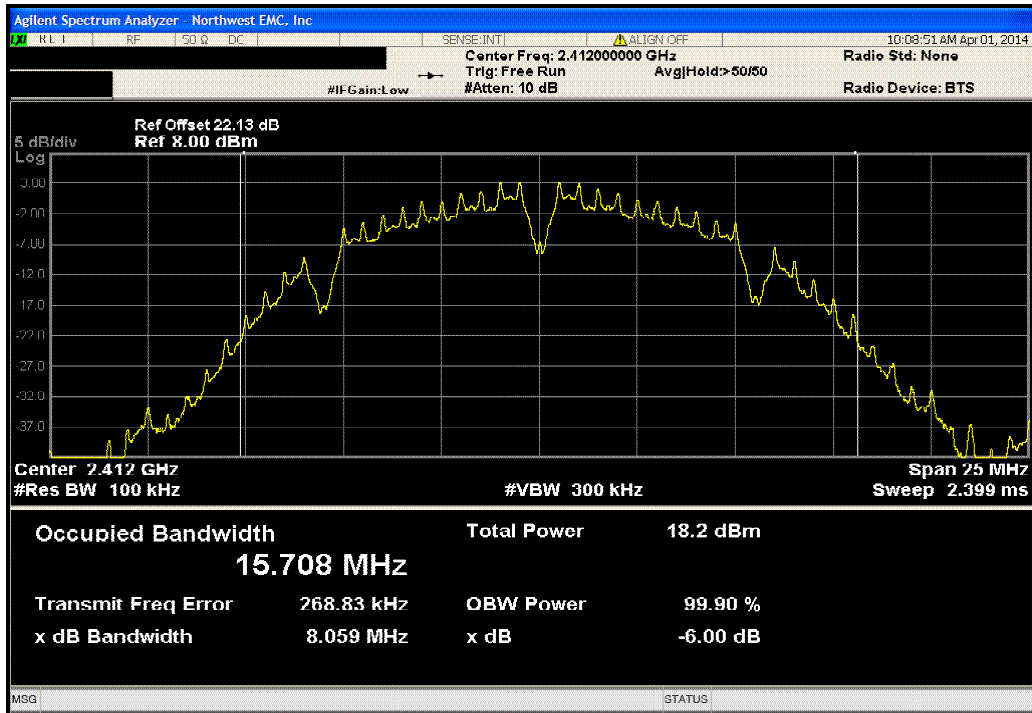
DEVIATIONS FROM TEST STANDARD
None

Configuration #	3	Signature <i>Trevor Buls</i>
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		Value	Limit	Result
Antenna 0				
802.11(b) 1 Mbps				
	Low Channel 1, 2412 MHz	8.059 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	8.062 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	8.054 MHz	> 500 kHz	Pass
802.11(b) 11 Mbps				
	Low Channel 1, 2412 MHz	7.309 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	7.687 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	7.724 MHz	> 500 kHz	Pass
802.11(g) 6 Mbps				
	Low Channel 1, 2412 MHz	15.095 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	15.108 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	15.091 MHz	> 500 kHz	Pass
802.11(g) 36 Mbps				
	Low Channel 1, 2412 MHz	15.412 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	15.682 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	15.112 MHz	> 500 kHz	Pass
802.11(g) 54 Mbps				
	Low Channel 1, 2412 MHz	15.723 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	15.116 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	15.39 MHz	> 500 kHz	Pass
802.11(n) MCS0				
	Low Channel 1, 2412 MHz	15.099 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	15.111 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	15.093 MHz	> 500 kHz	Pass
802.11(n) MCS7				
	Low Channel 1, 2412 MHz	16.622 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	16.013 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	15.939 MHz	> 500 kHz	Pass
Antenna 1				
802.11(b) 1 Mbps				
	Low Channel 1, 2412 MHz	8.061 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	8.058 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	7.6 MHz	> 500 kHz	Pass
802.11(b) 11 Mbps				
	Low Channel 1, 2412 MHz	7.71 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	7.41 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	7.851 MHz	> 500 kHz	Pass
802.11(g) 6 Mbps				
	Low Channel 1, 2412 MHz	15.091 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	15.112 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	15.31 MHz	> 500 kHz	Pass
802.11(g) 36 Mbps				
	Low Channel 1, 2412 MHz	15.114 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	15.12 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	15.113 MHz	> 500 kHz	Pass
802.11(g) 54 Mbps				
	Low Channel 1, 2412 MHz	15.367 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	15.118 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	15.632 MHz	> 500 kHz	Pass
802.11(n) MCS0				
	Low Channel 1, 2412 MHz	15.134 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	15.108 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	15.102 MHz	> 500 kHz	Pass
802.11(n) MCS7				
	Low Channel 1, 2412 MHz	15.707 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	16.092 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	16.863 MHz	> 500 kHz	Pass

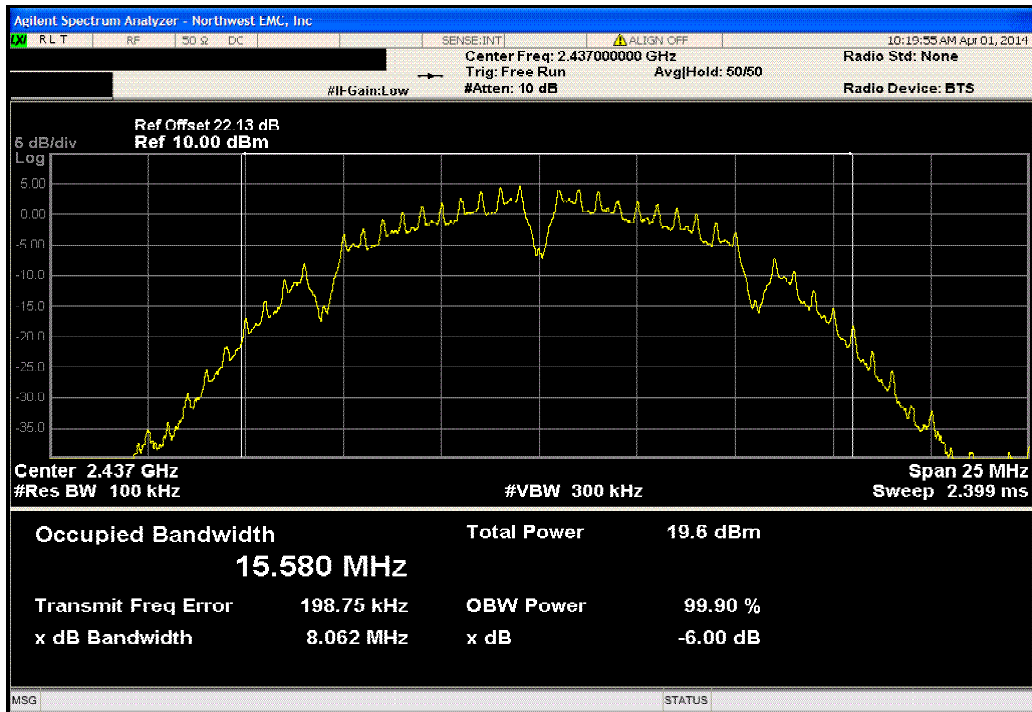
Antenna 0, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

	Value	Limit	Result
	8.059 MHz	> 500 kHz	Pass



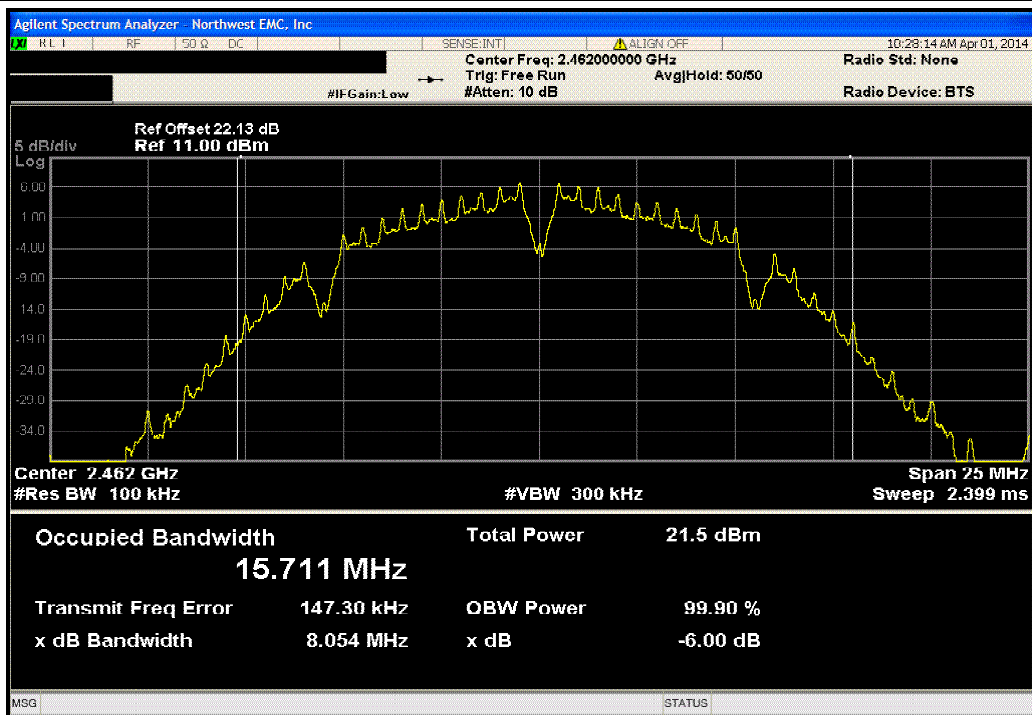
Antenna 0, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

	Value	Limit	Result
	8.062 MHz	> 500 kHz	Pass



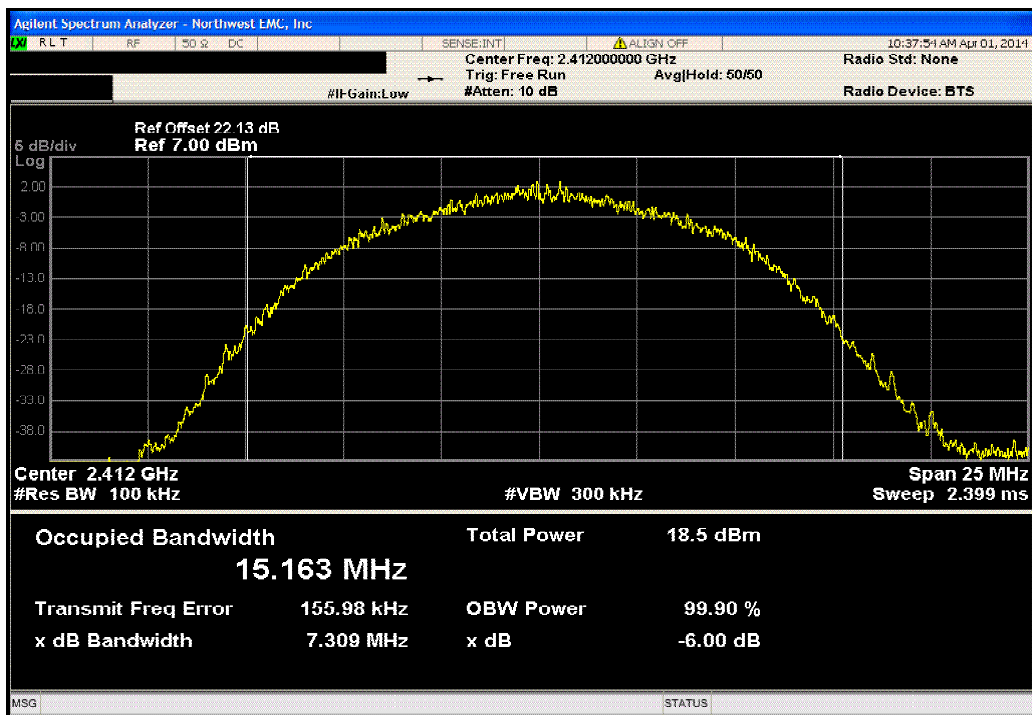
Antenna 0, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

	Value	Limit	Result
	8.054 MHz	> 500 kHz	Pass



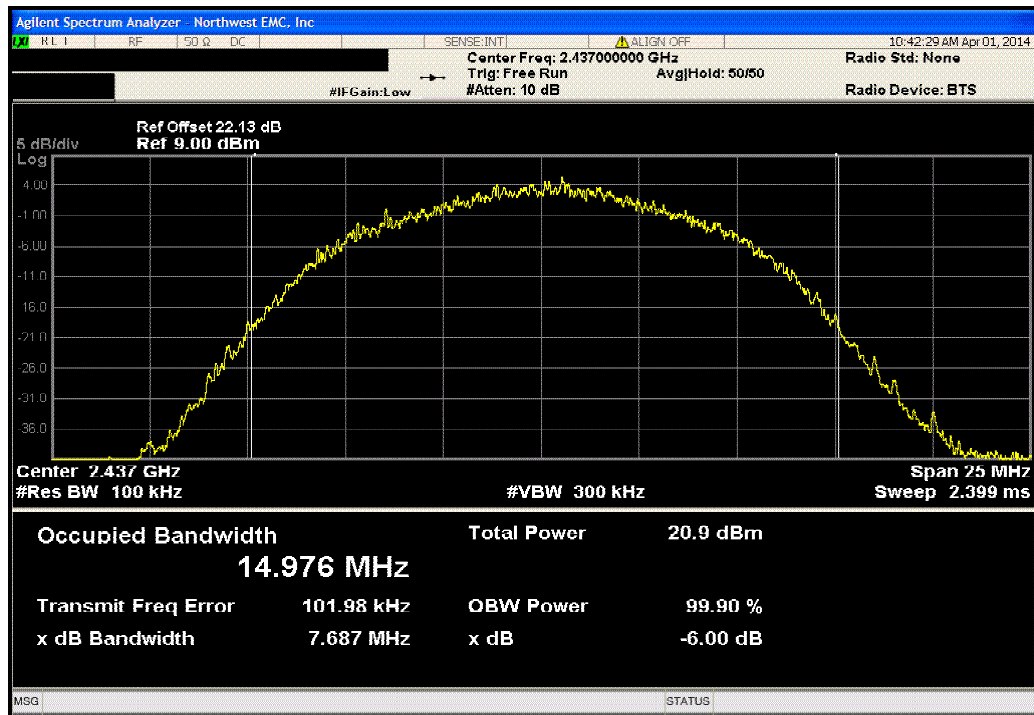
Antenna 0, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

	Value	Limit	Result
	7.309 MHz	> 500 kHz	Pass



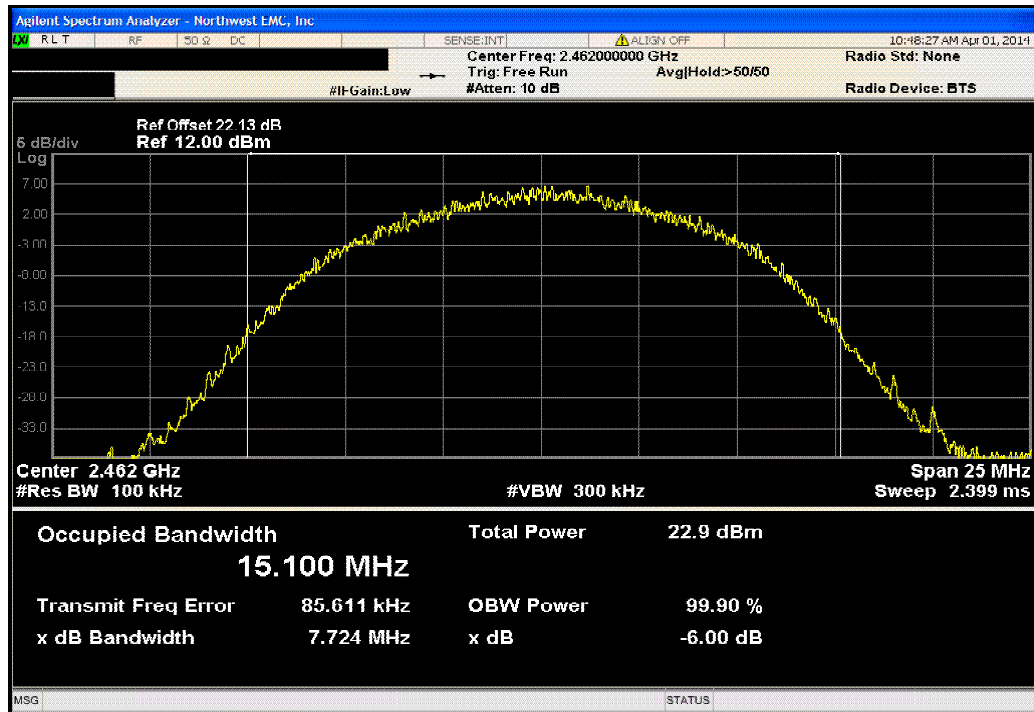
Antenna 0, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				7.687 MHz	> 500 kHz	Pass



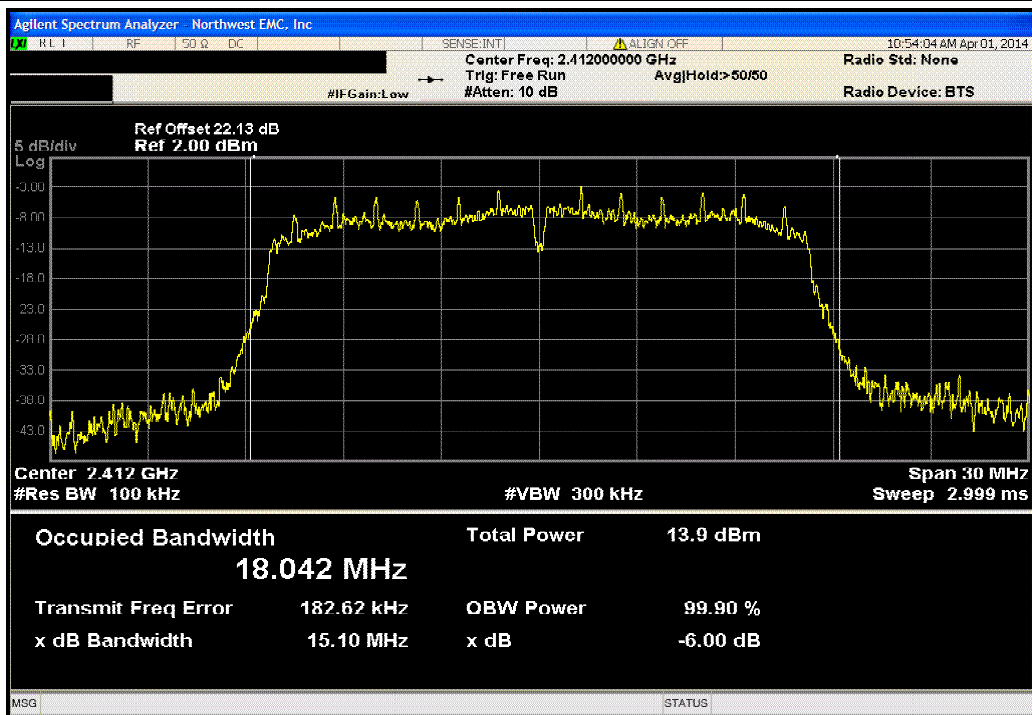
Antenna 0, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				7.724 MHz	> 500 kHz	Pass



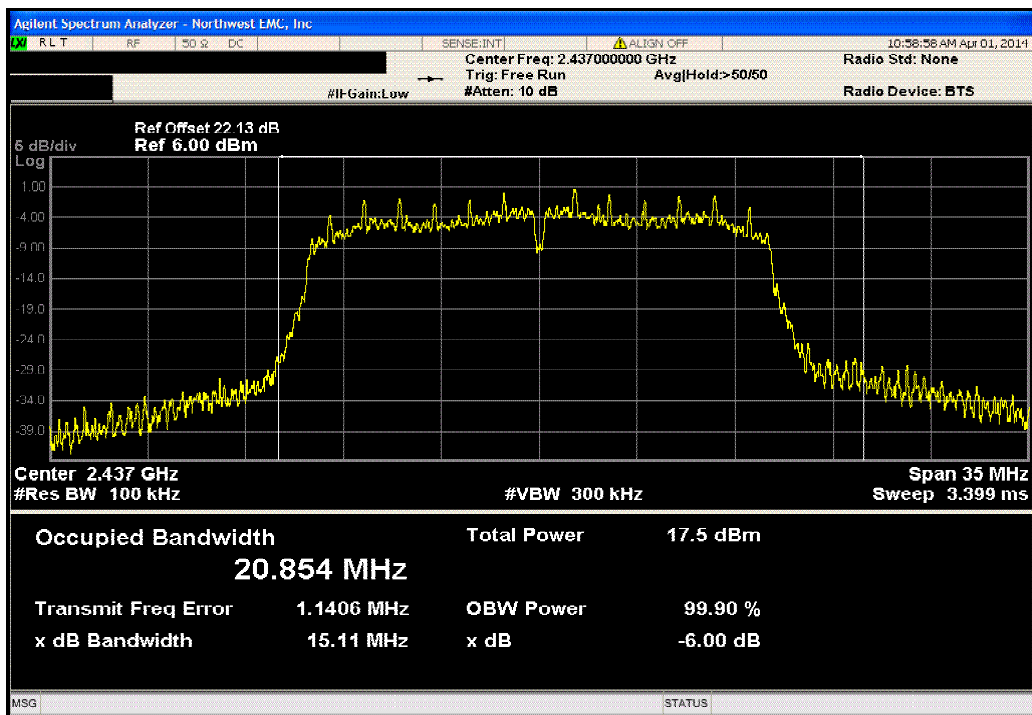
Antenna 0, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				15.095 MHz	> 500 kHz	Pass



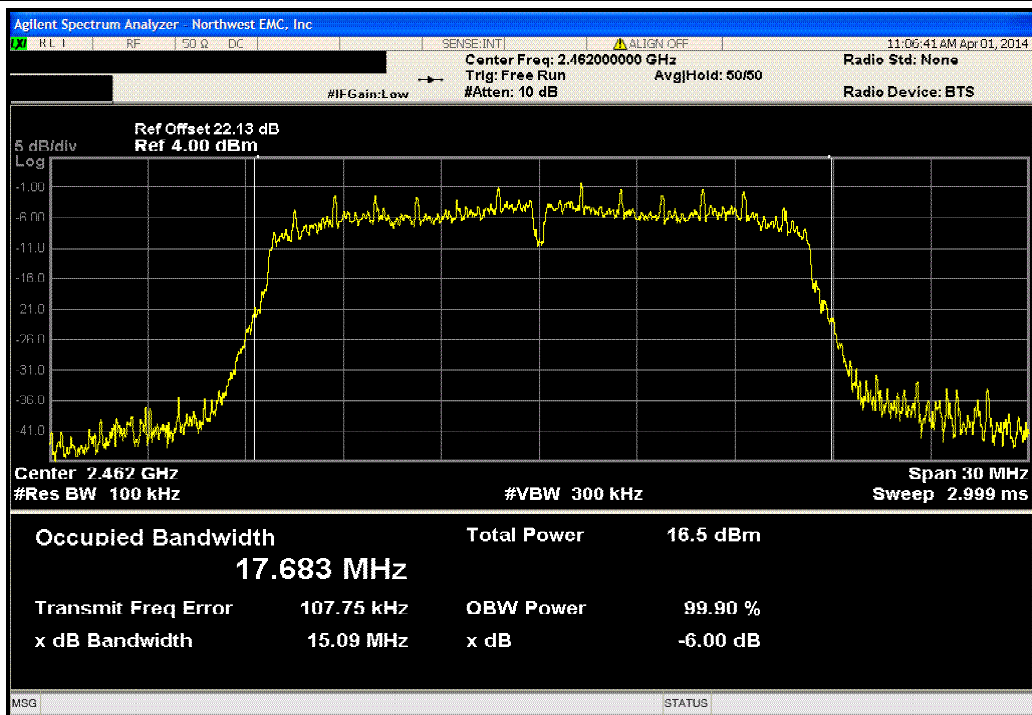
Antenna 0, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				15.108 MHz	> 500 kHz	Pass



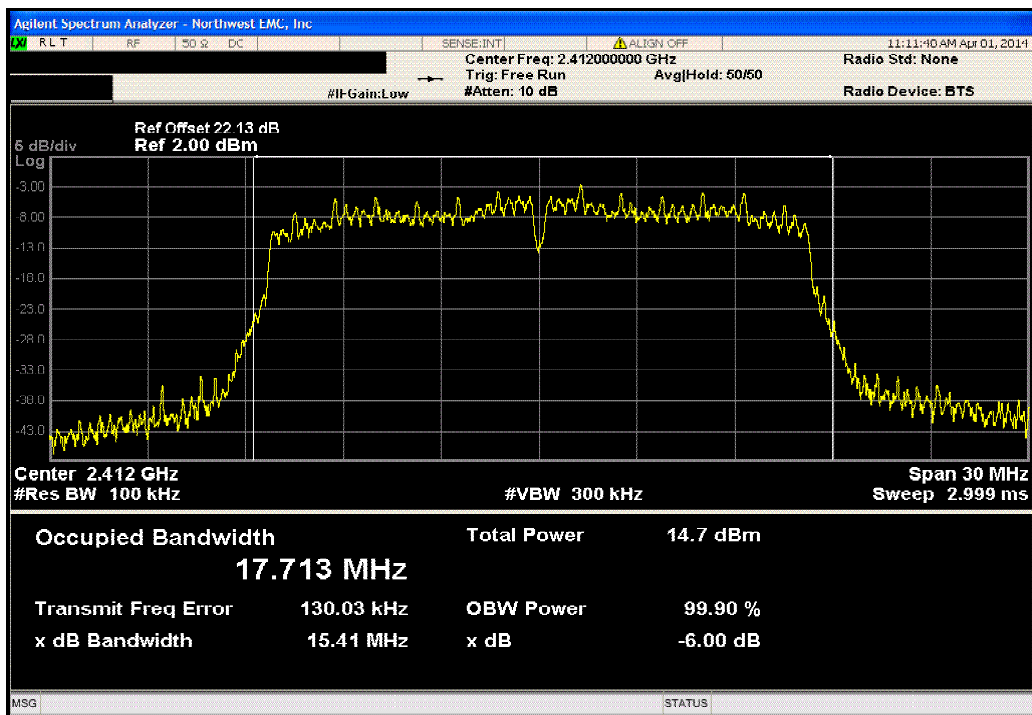
Antenna 0, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				15.091 MHz	> 500 kHz	Pass



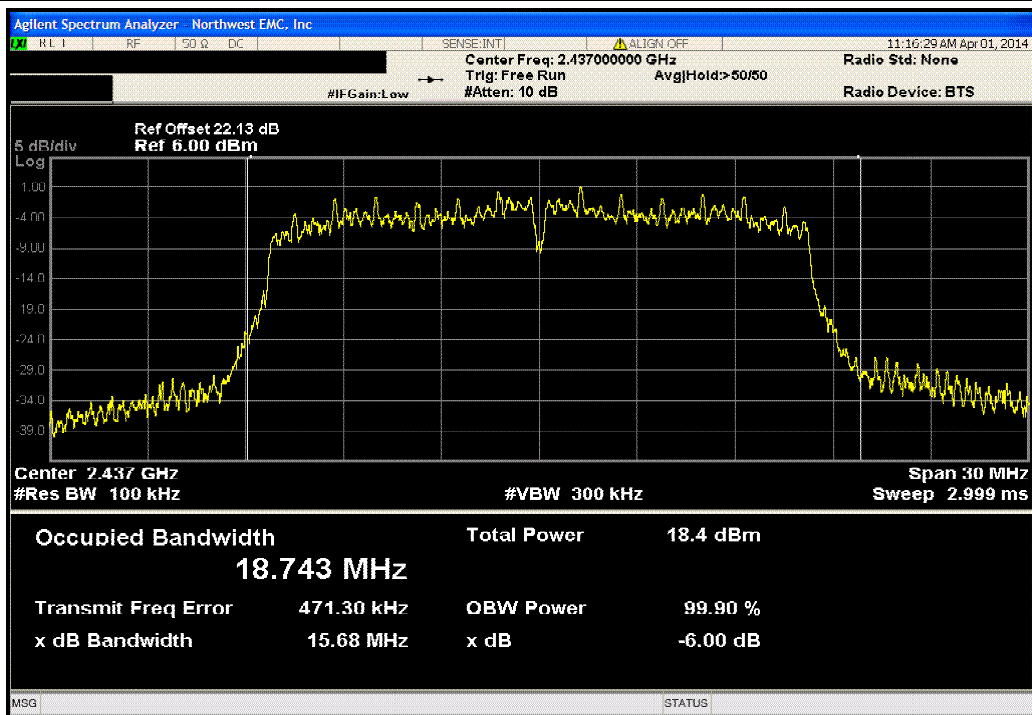
Antenna 0, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				15.412 MHz	> 500 kHz	Pass



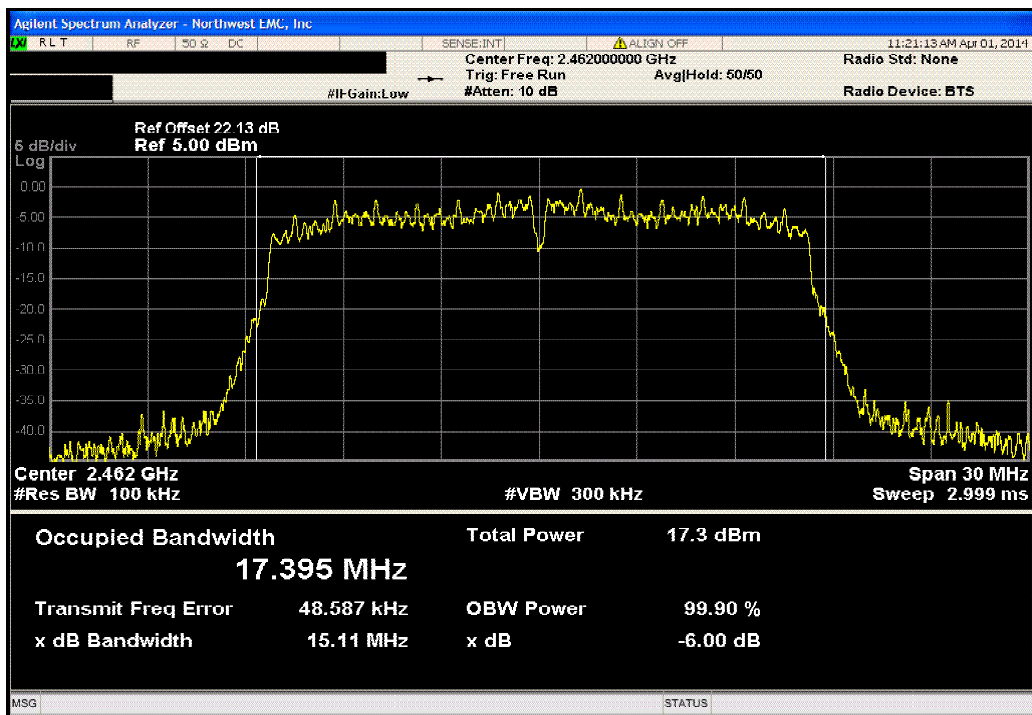
Antenna 0, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				15.682 MHz	> 500 kHz	Pass



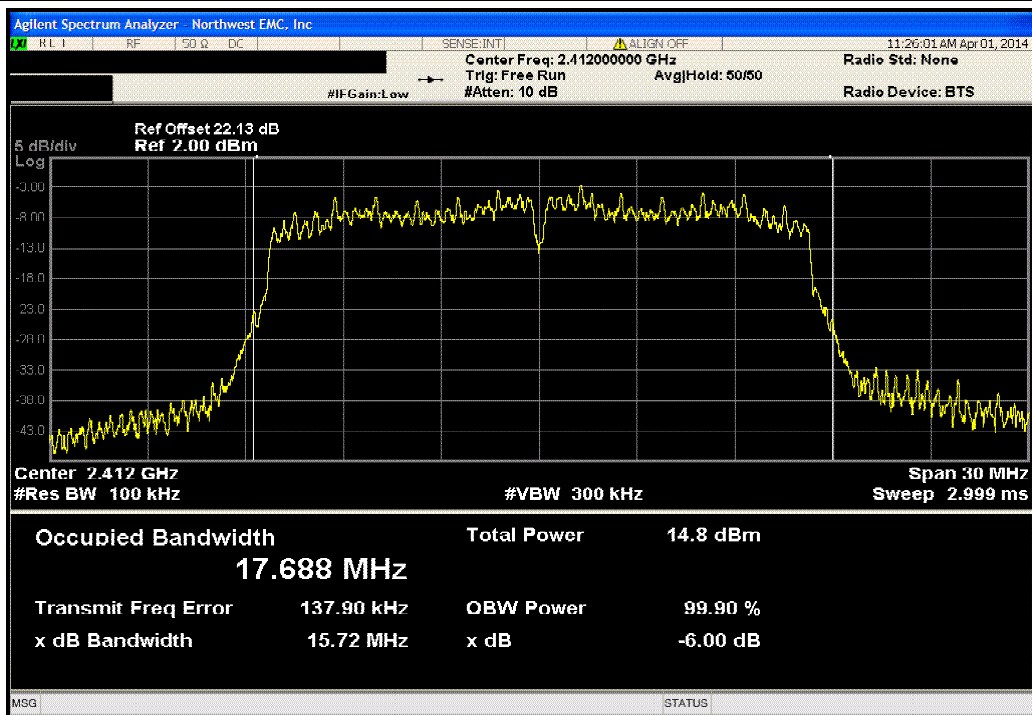
Antenna 0, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				15.112 MHz	> 500 kHz	Pass



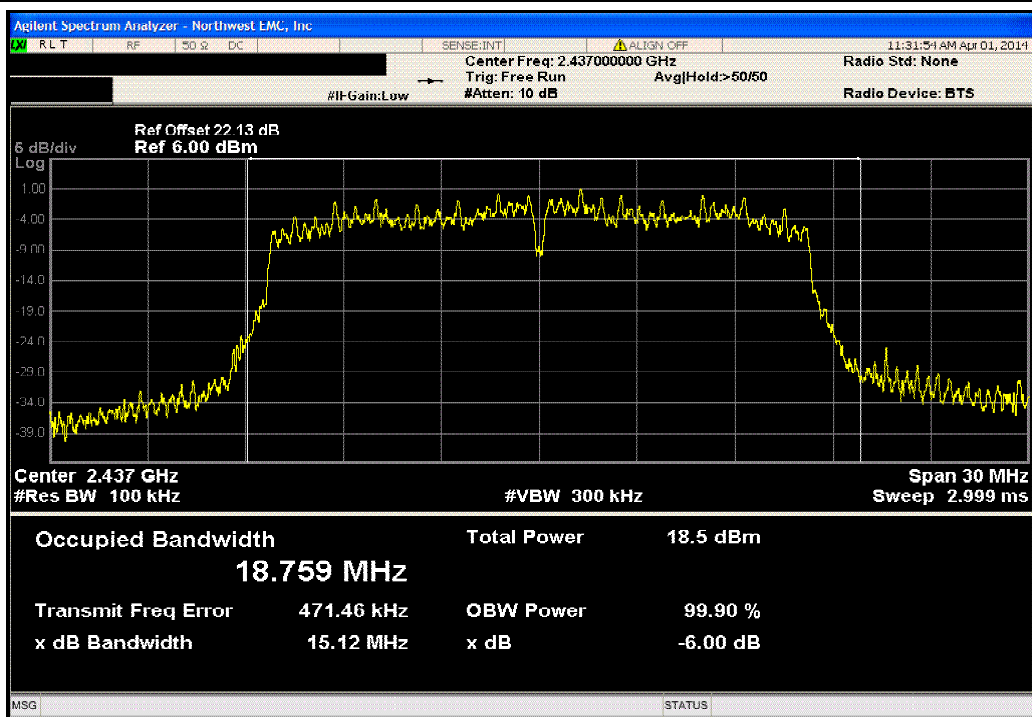
Antenna 0, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				15.723 MHz	> 500 kHz	Pass



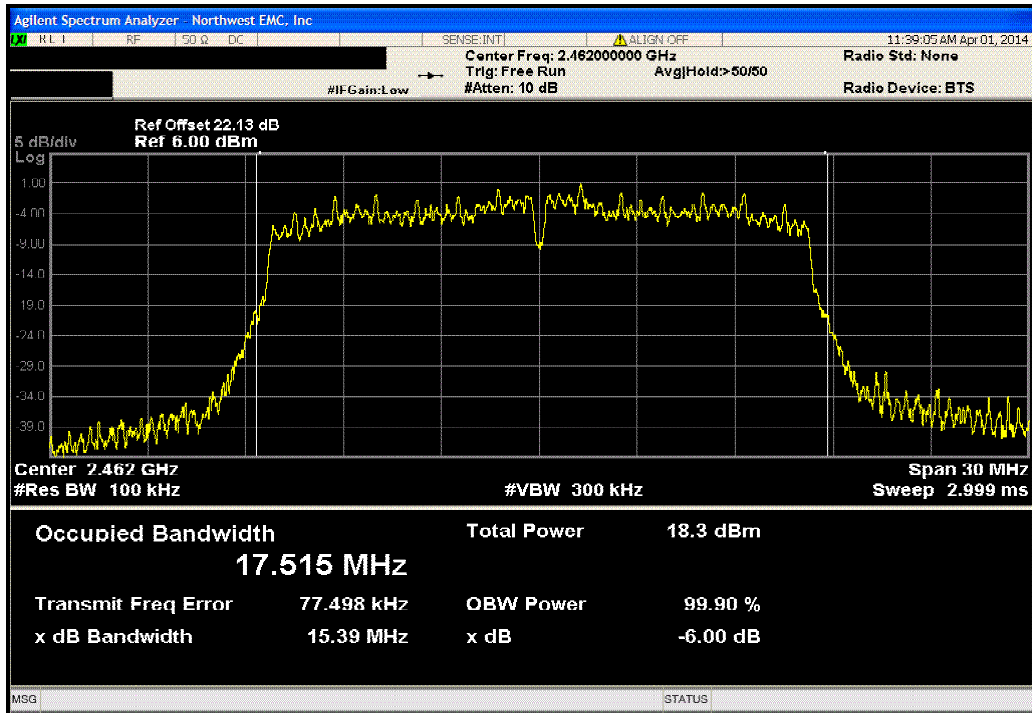
Antenna 0, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				15.116 MHz	> 500 kHz	Pass



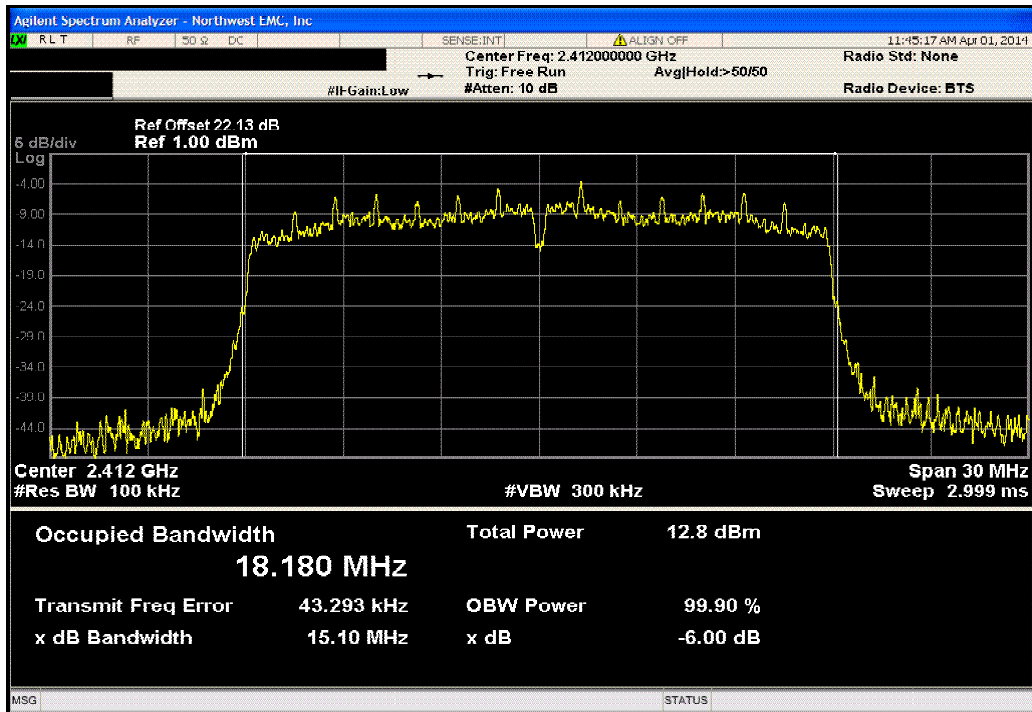
Antenna 0, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				15.39 MHz	> 500 kHz	Pass



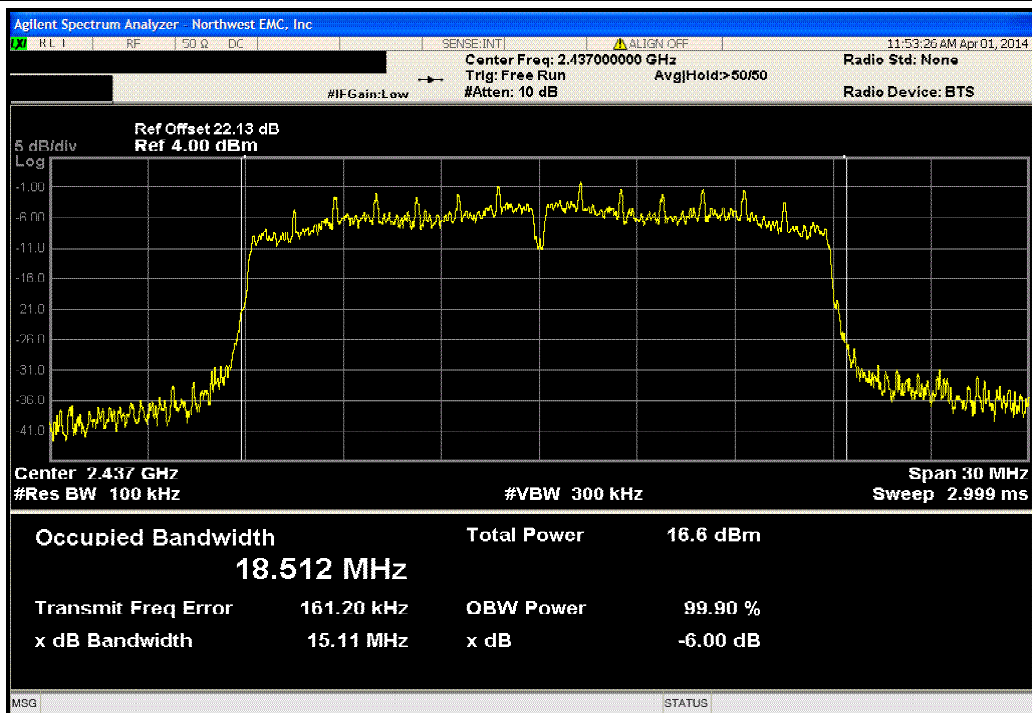
Antenna 0, 802.11(n) MCS0, Low Channel 1, 2412 MHz

				Value	Limit	Result
				15.099 MHz	> 500 kHz	Pass



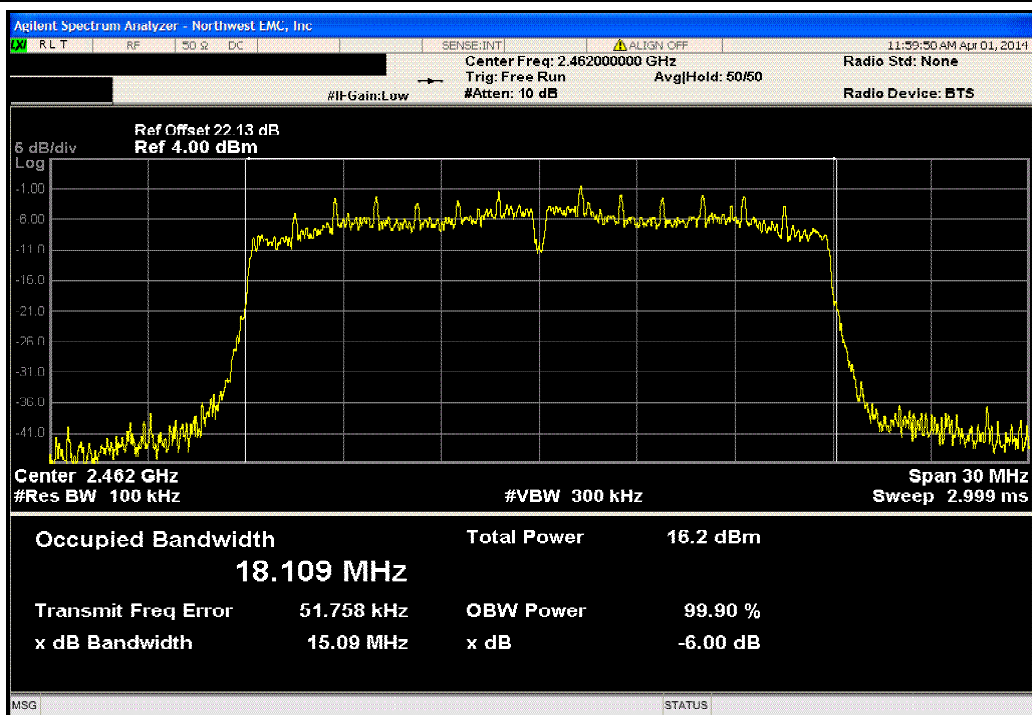
Antenna 0, 802.11(n) MCS0, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				15.111 MHz	> 500 kHz	Pass



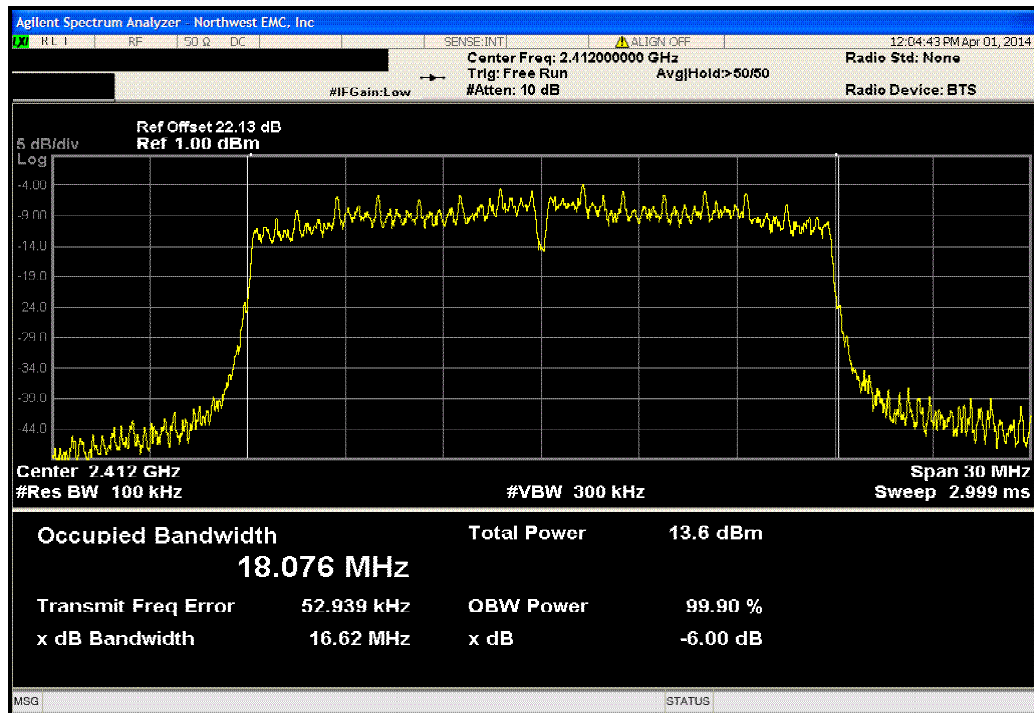
Antenna 0, 802.11(n) MCS0, High Channel 11, 2462 MHz

				Value	Limit	Result
				15.093 MHz	> 500 kHz	Pass



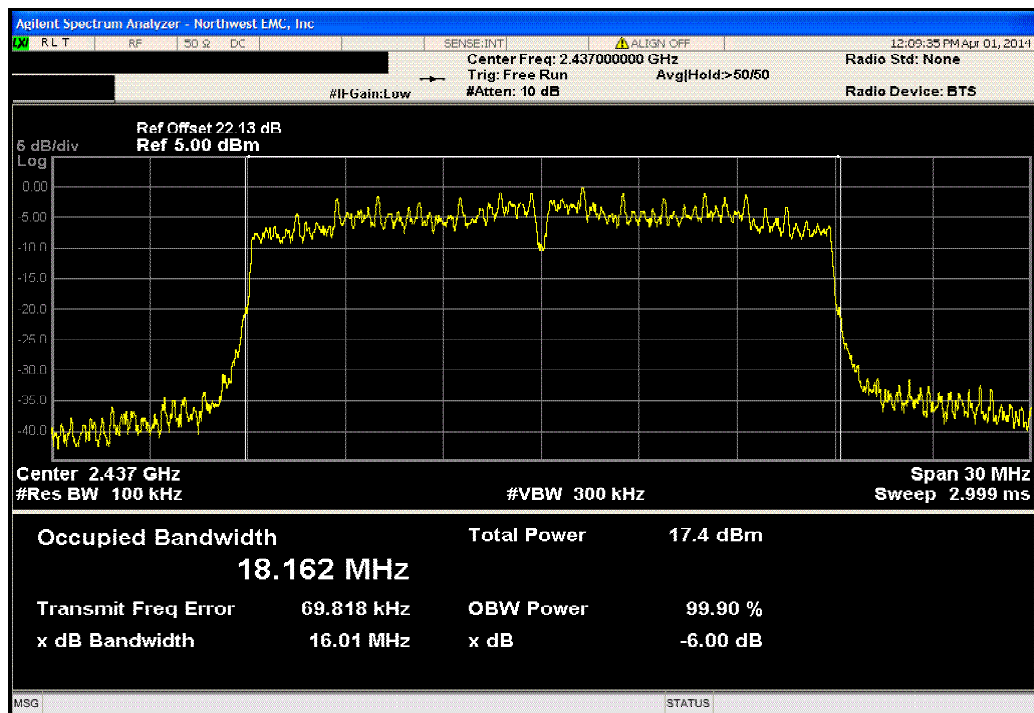
Antenna 0, 802.11(n) MCS7, Low Channel 1, 2412 MHz

				Value	Limit	Result
				16.622 MHz	> 500 kHz	Pass



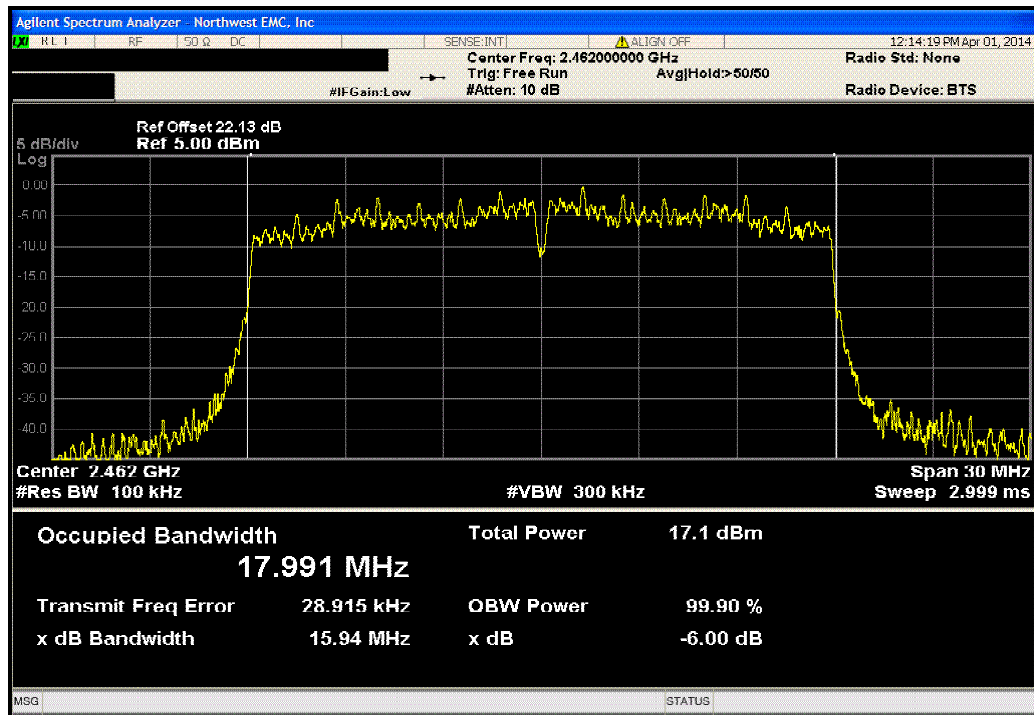
Antenna 0, 802.11(n) MCS7, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				16.013 MHz	> 500 kHz	Pass



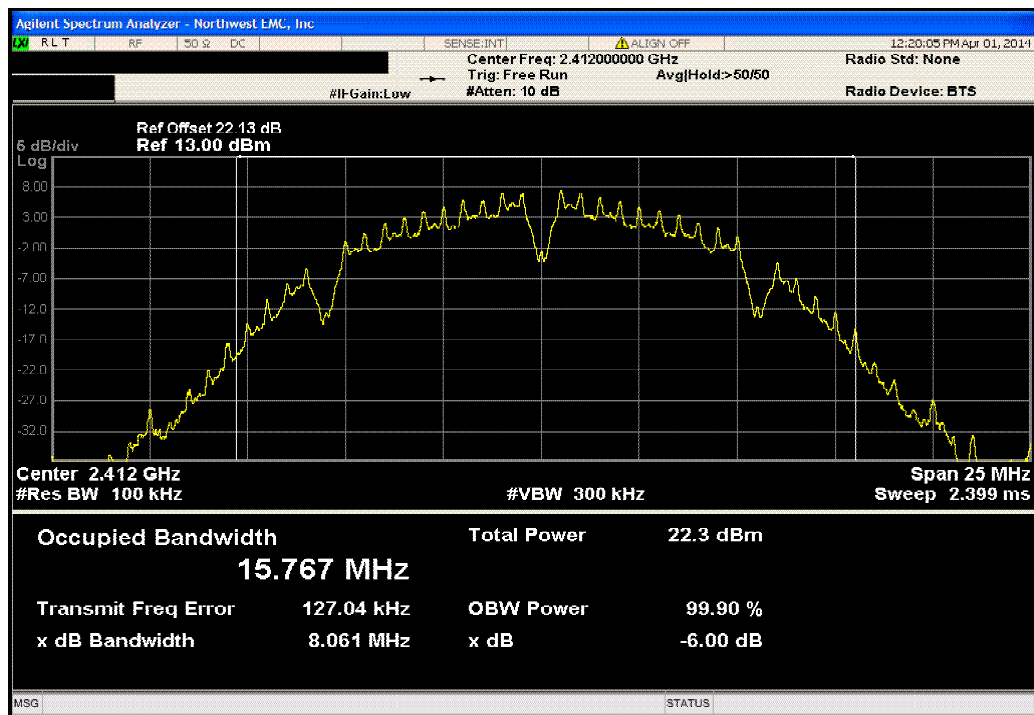
Antenna 0, 802.11(n) MCS7, High Channel 11, 2462 MHz

				Value	Limit	Result
				15.939 MHz	> 500 kHz	Pass



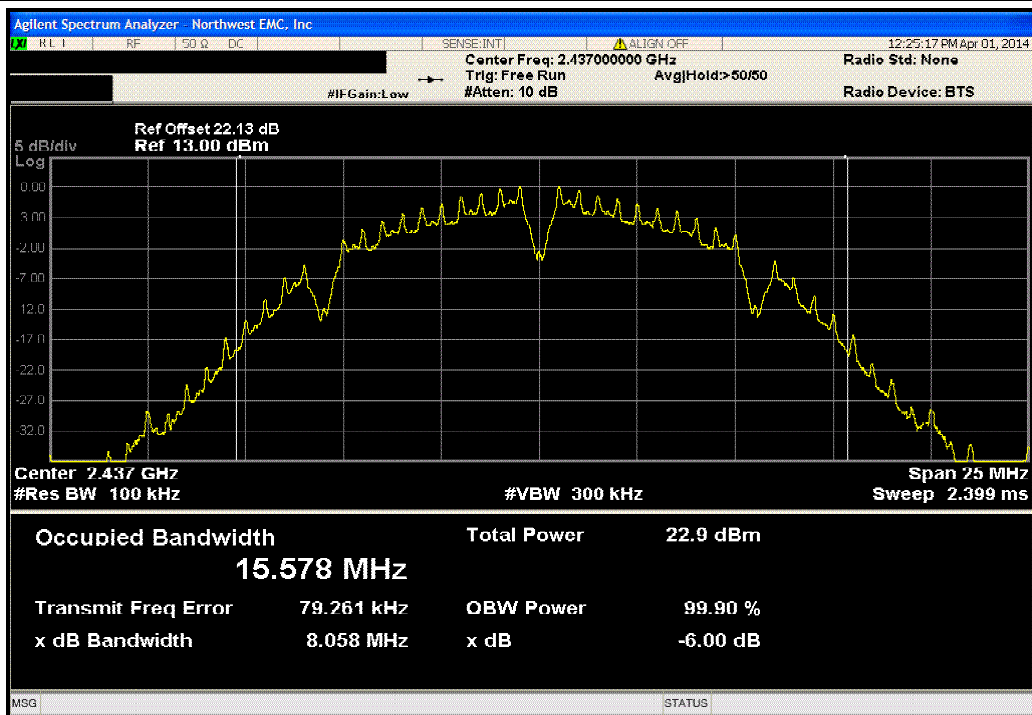
Antenna 1, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				8.061 MHz	> 500 kHz	Pass



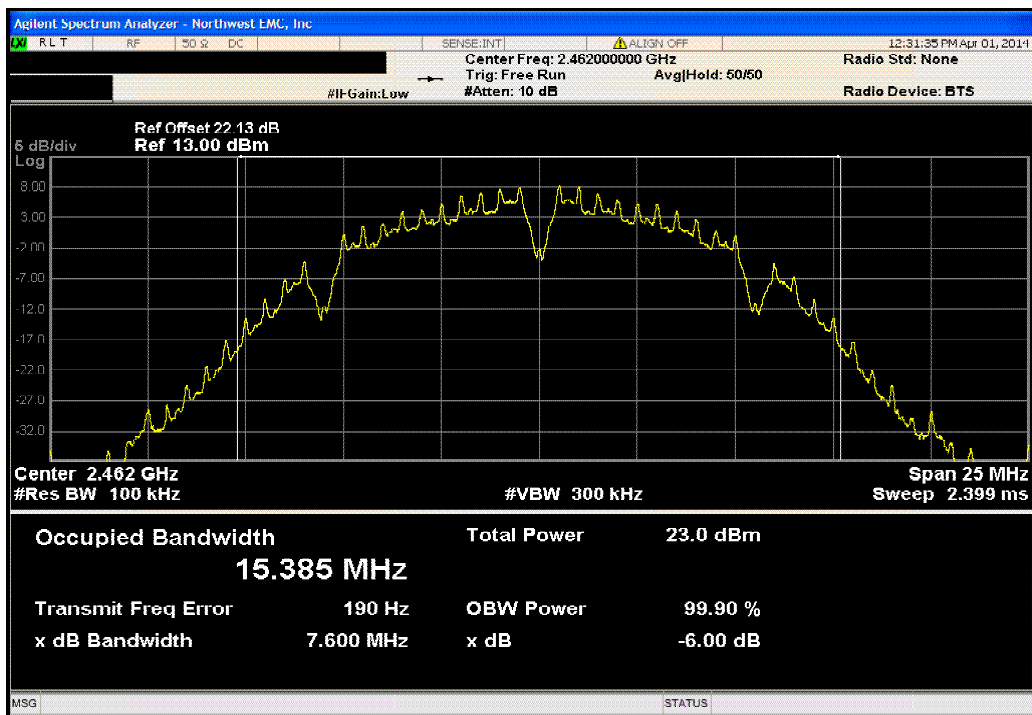
Antenna 1, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

	Value	Limit	Result
	8.058 MHz	> 500 kHz	Pass



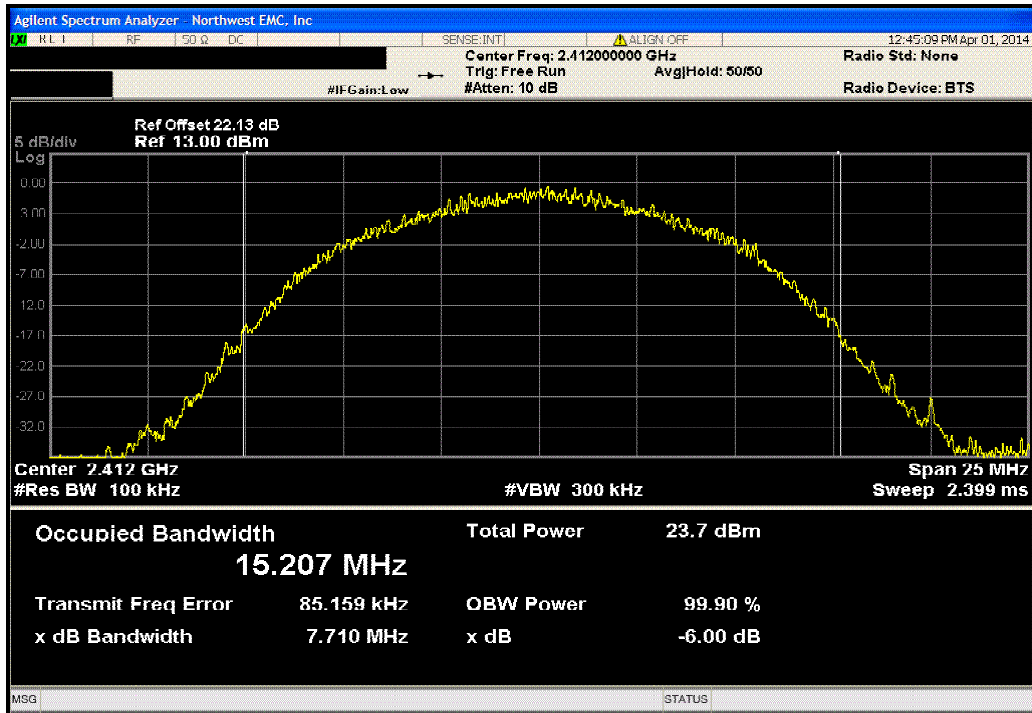
Antenna 1, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

	Value	Limit	Result
	7.6 MHz	> 500 kHz	Pass



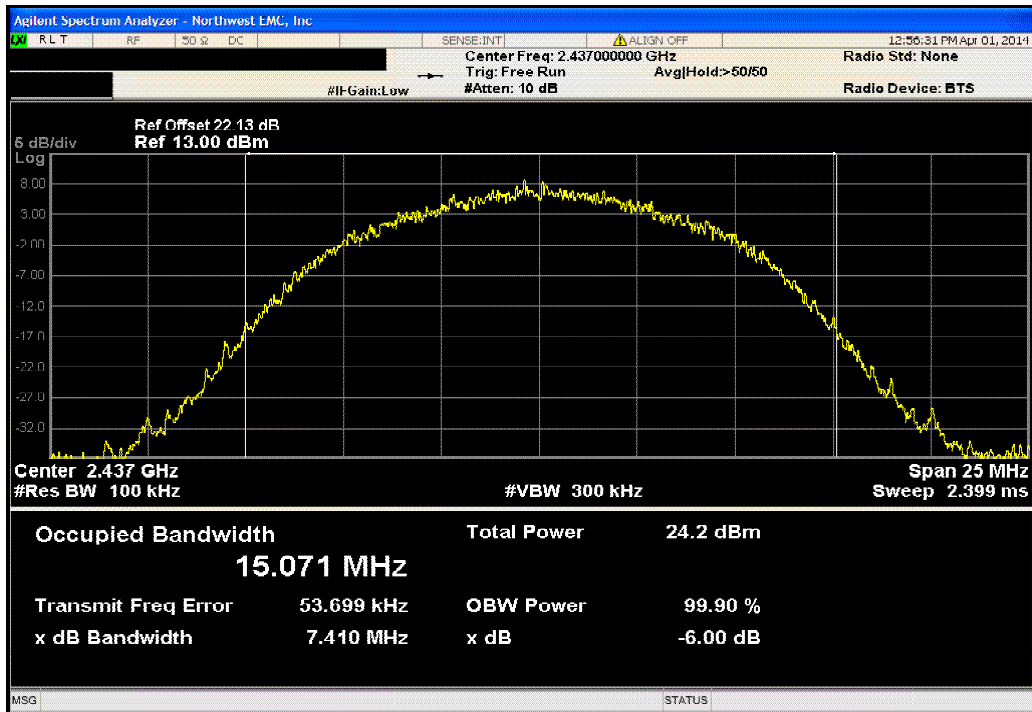
Antenna 1, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

	Value	Limit	Result
	7.71 MHz	> 500 kHz	Pass



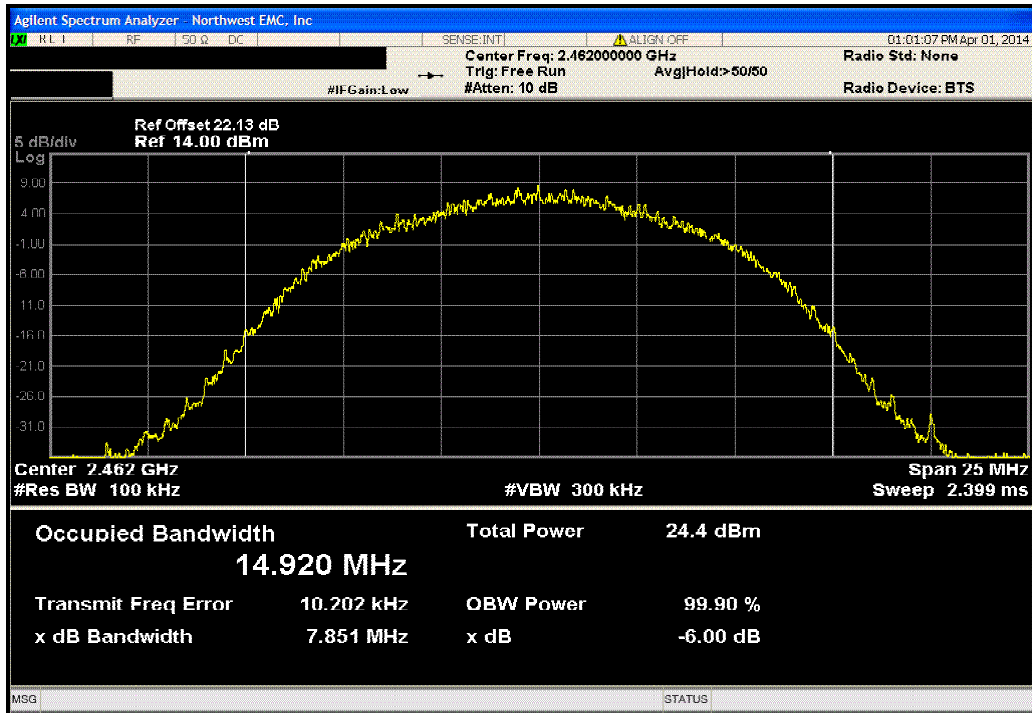
Antenna 1, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz

	Value	Limit	Result
	7.41 MHz	> 500 kHz	Pass



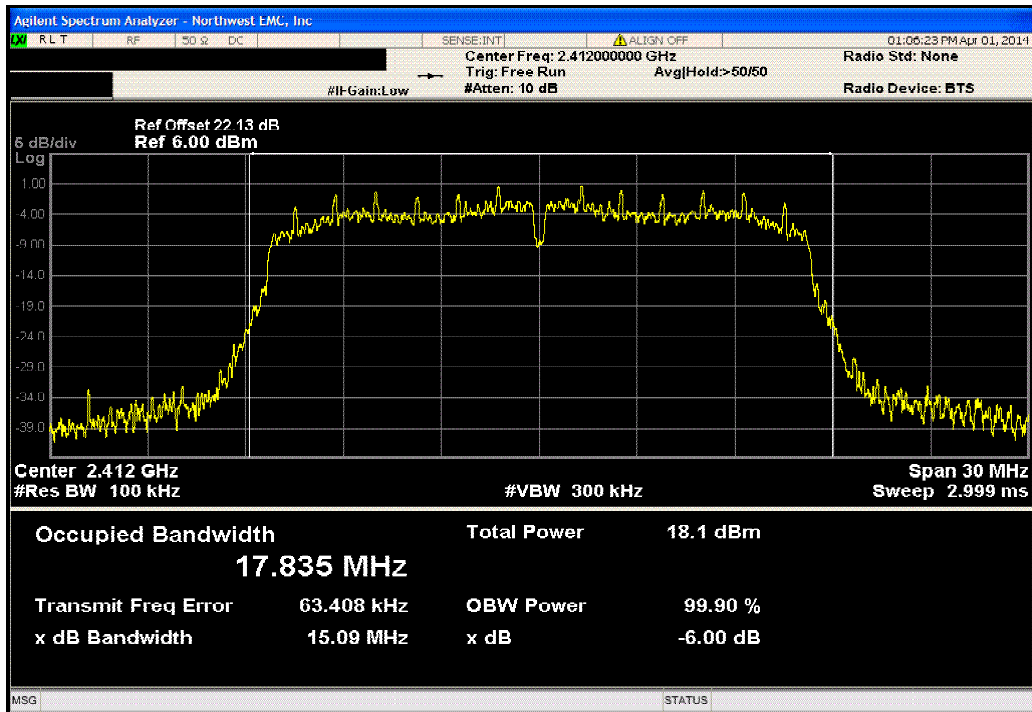
Antenna 1, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

	Value	Limit	Result
	7.851 MHz	> 500 kHz	Pass



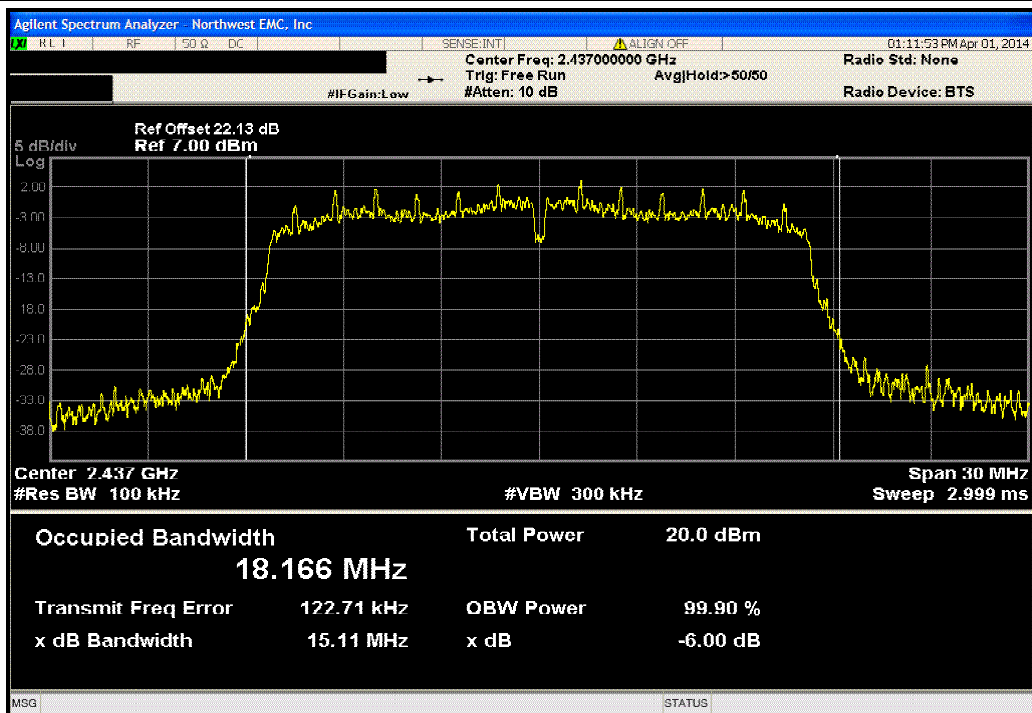
Antenna 1, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

	Value	Limit	Result
	15.091 MHz	> 500 kHz	Pass



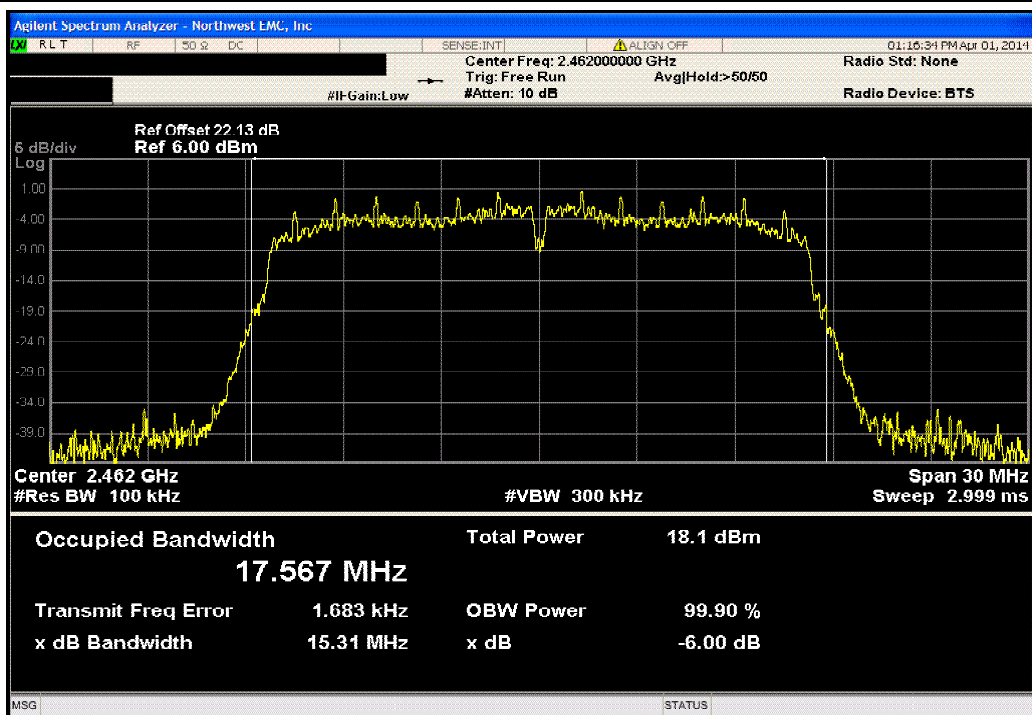
Antenna 1, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

	Value	Limit	Result
	15.112 MHz	> 500 kHz	Pass



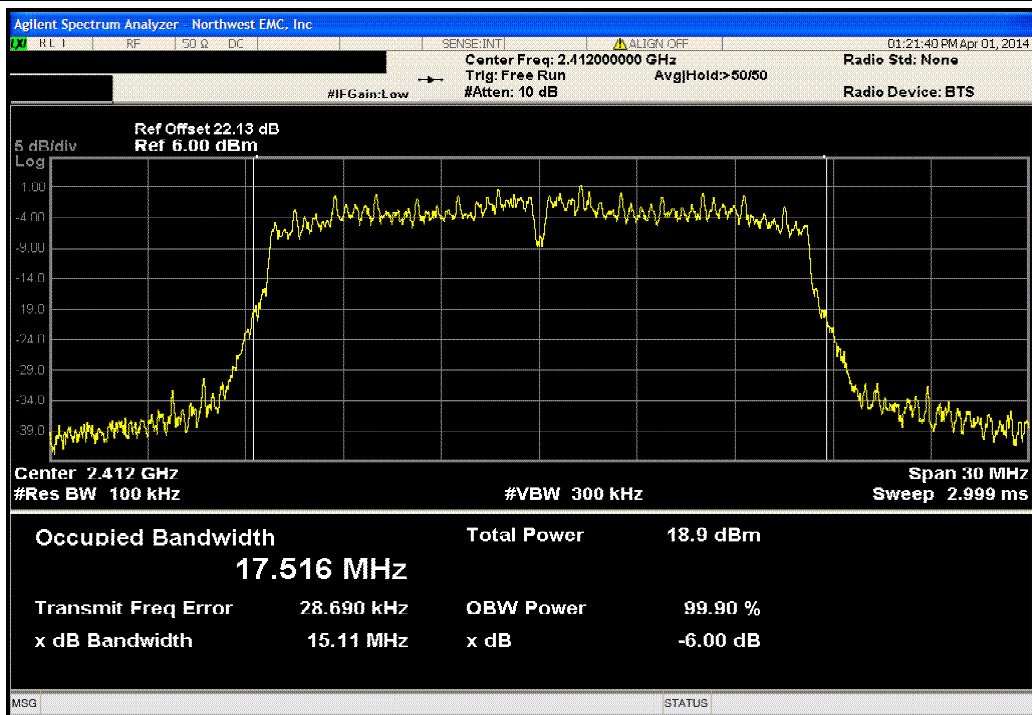
Antenna 1, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

	Value	Limit	Result
	15.31 MHz	> 500 kHz	Pass



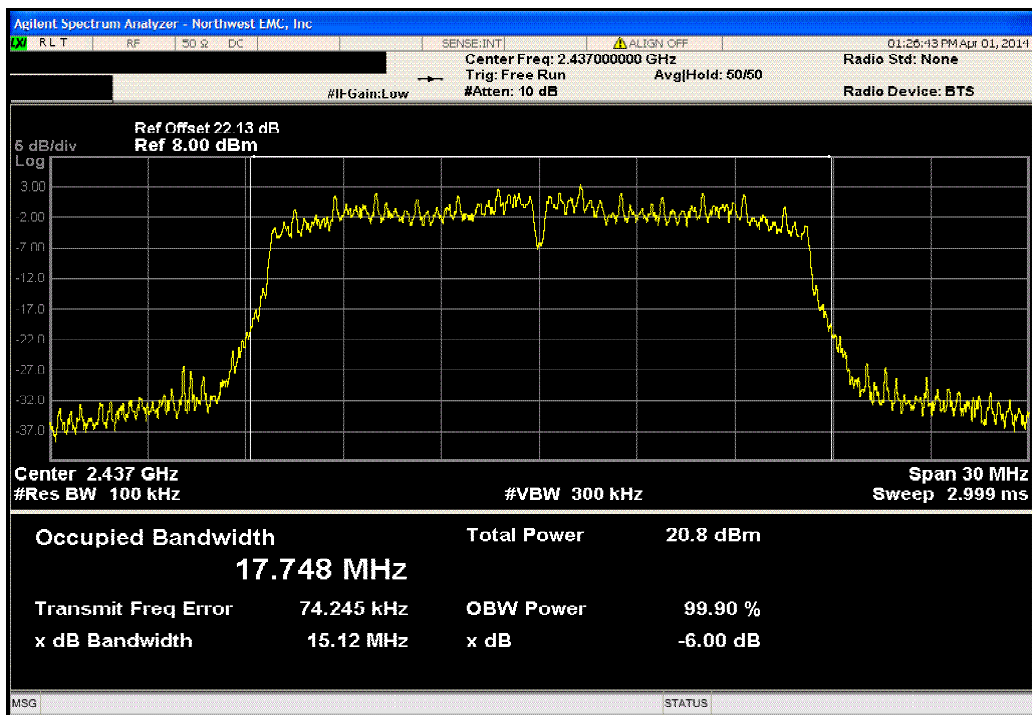
Antenna 1, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				15.114 MHz	> 500 kHz	Pass



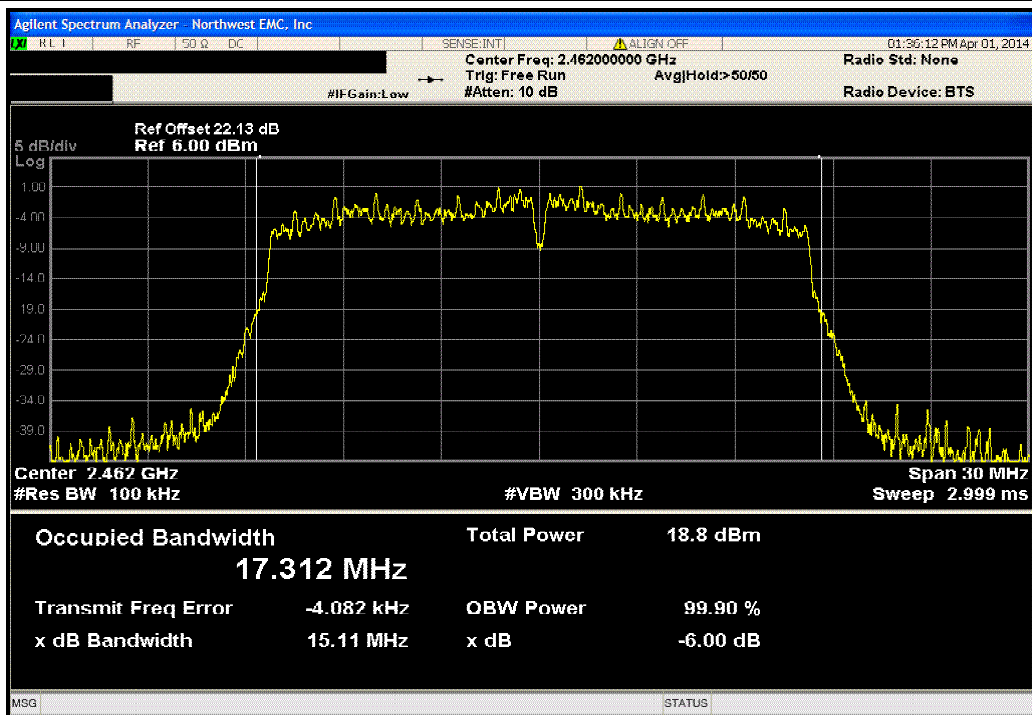
Antenna 1, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				15.12 MHz	> 500 kHz	Pass



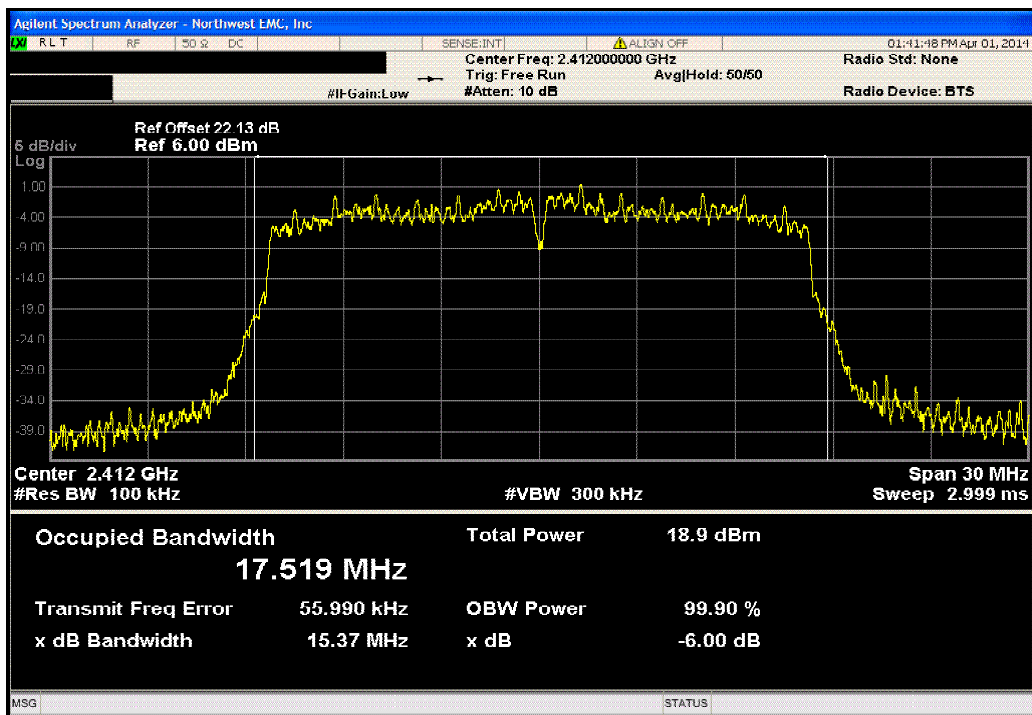
Antenna 1, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				15.113 MHz	> 500 kHz	Pass



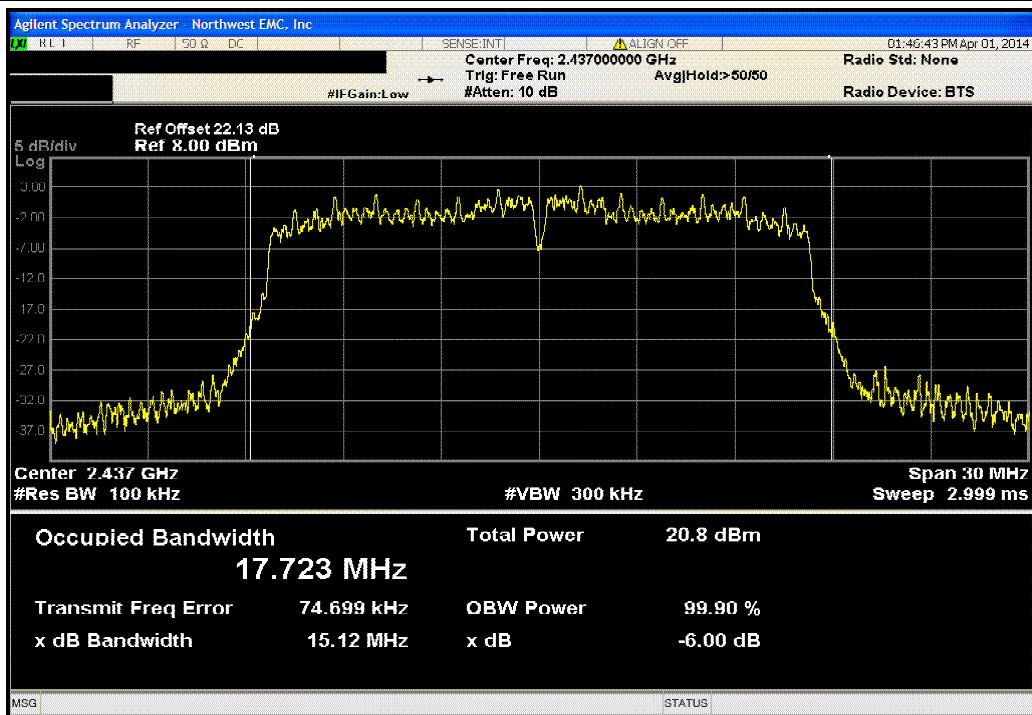
Antenna 1, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				15.367 MHz	> 500 kHz	Pass



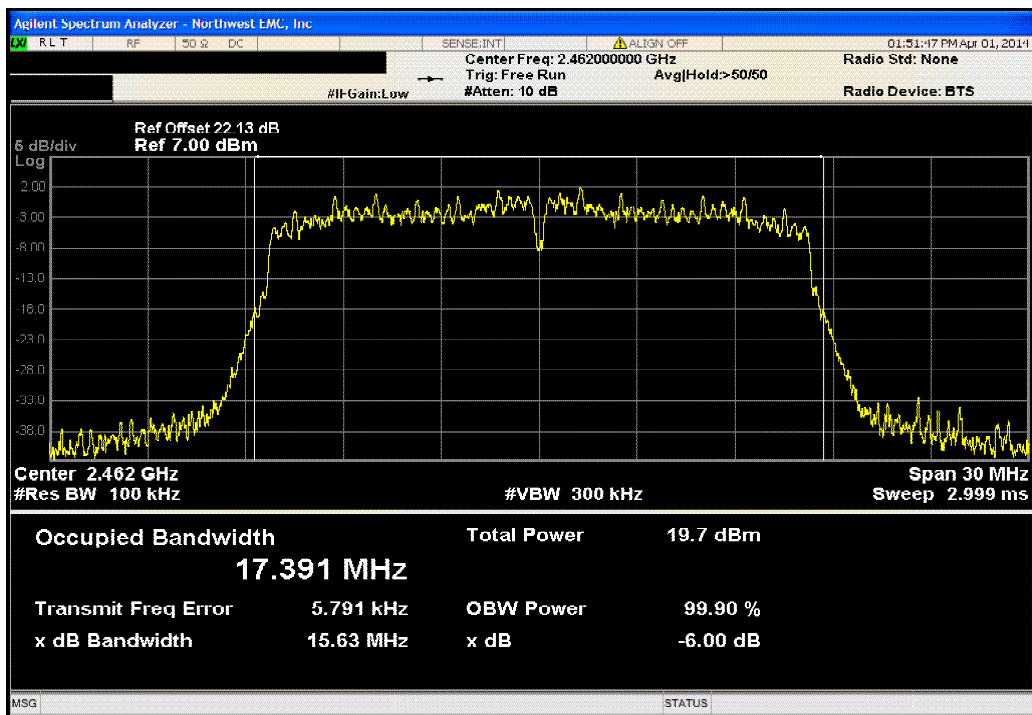
Antenna 1, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz

	Value	Limit	Result
	15.118 MHz	> 500 kHz	Pass



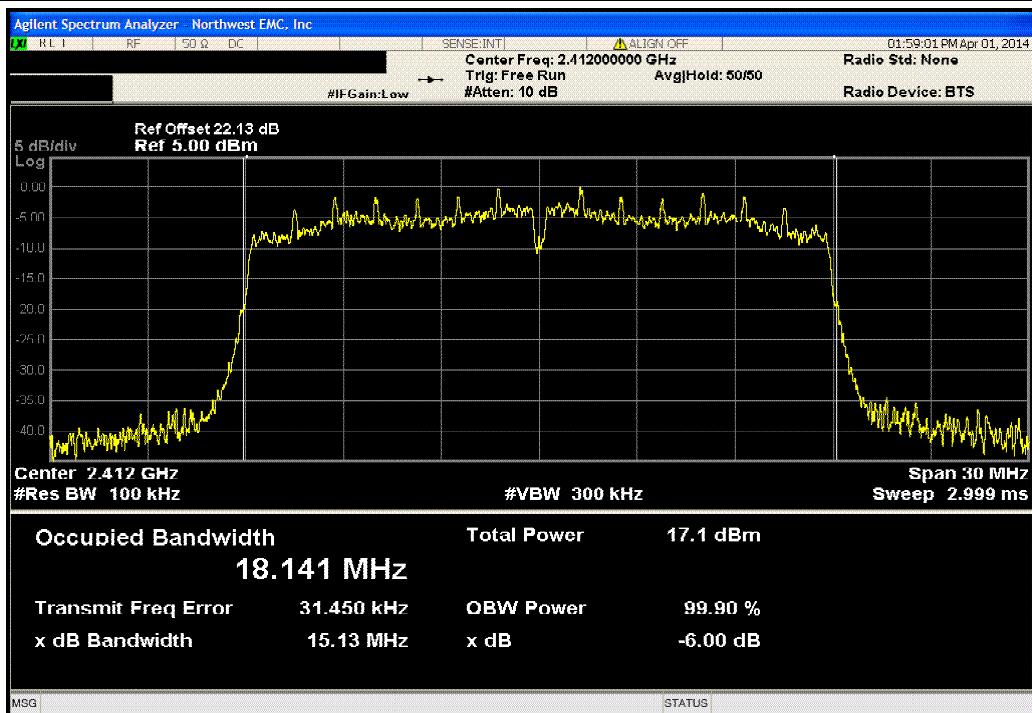
Antenna 1, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

	Value	Limit	Result
	15.632 MHz	> 500 kHz	Pass



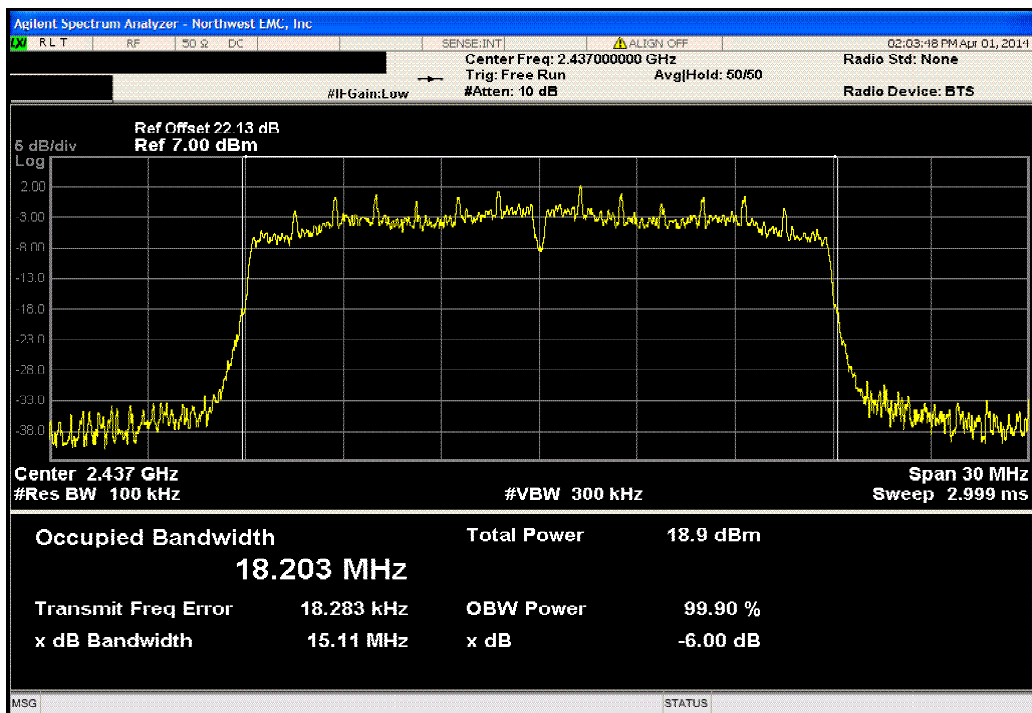
Antenna 1, 802.11(n) MCS0, Low Channel 1, 2412 MHz

				Value	Limit	Result
				15.134 MHz	> 500 kHz	Pass



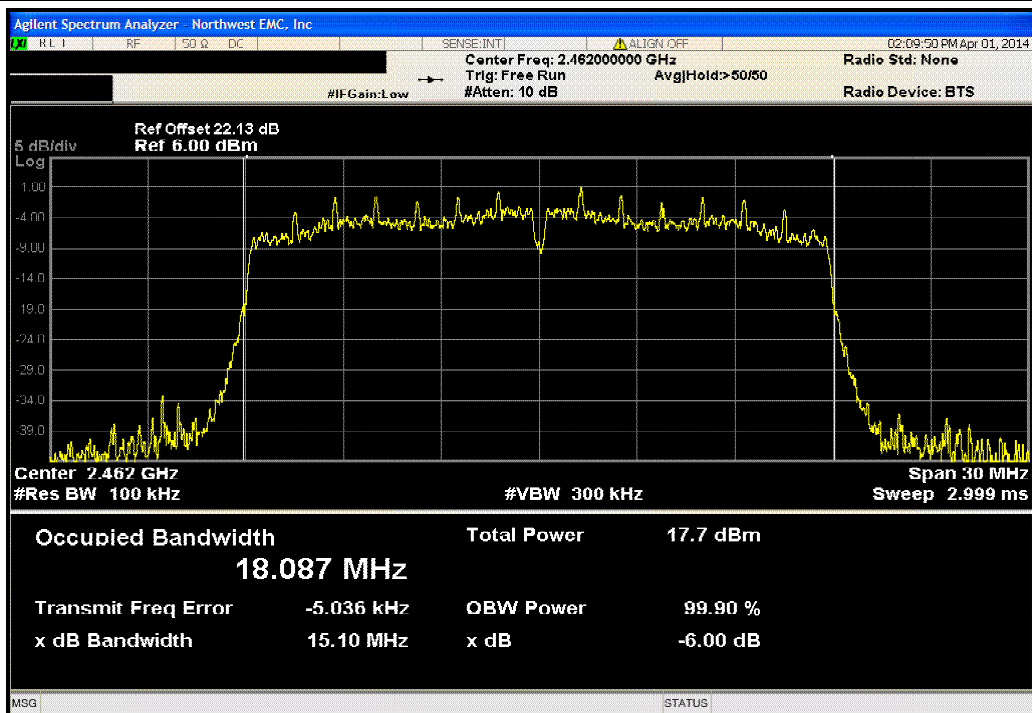
Antenna 1, 802.11(n) MCS0, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				15.108 MHz	> 500 kHz	Pass



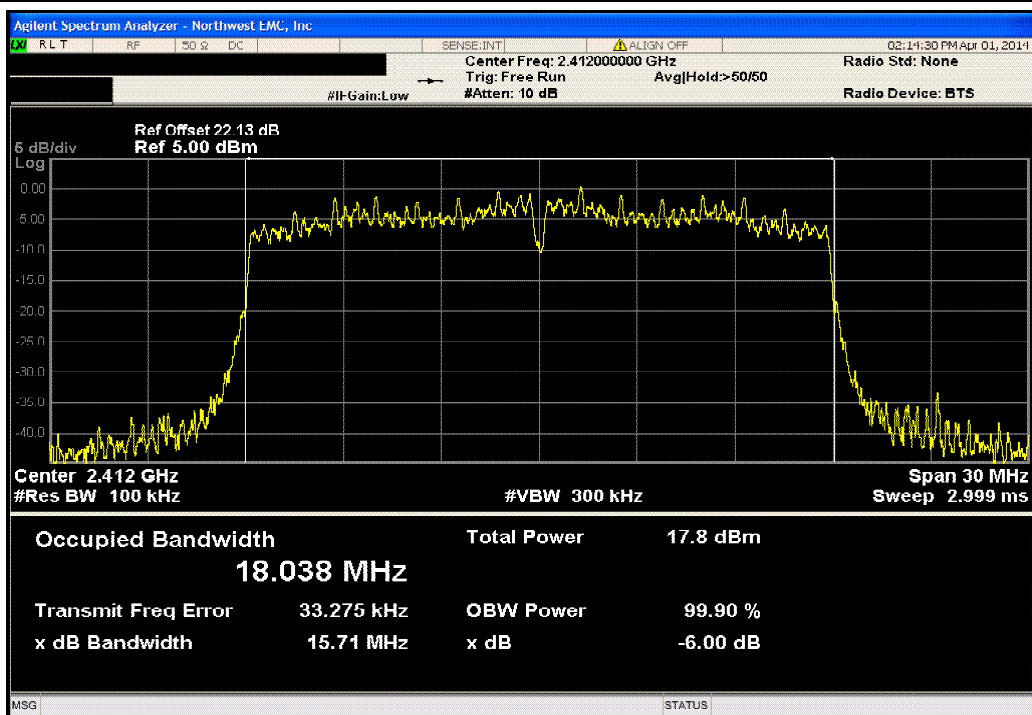
Antenna 1, 802.11(n) MCS0, High Channel 11, 2462 MHz

	Value	Limit	Result
	15.102 MHz	> 500 kHz	Pass



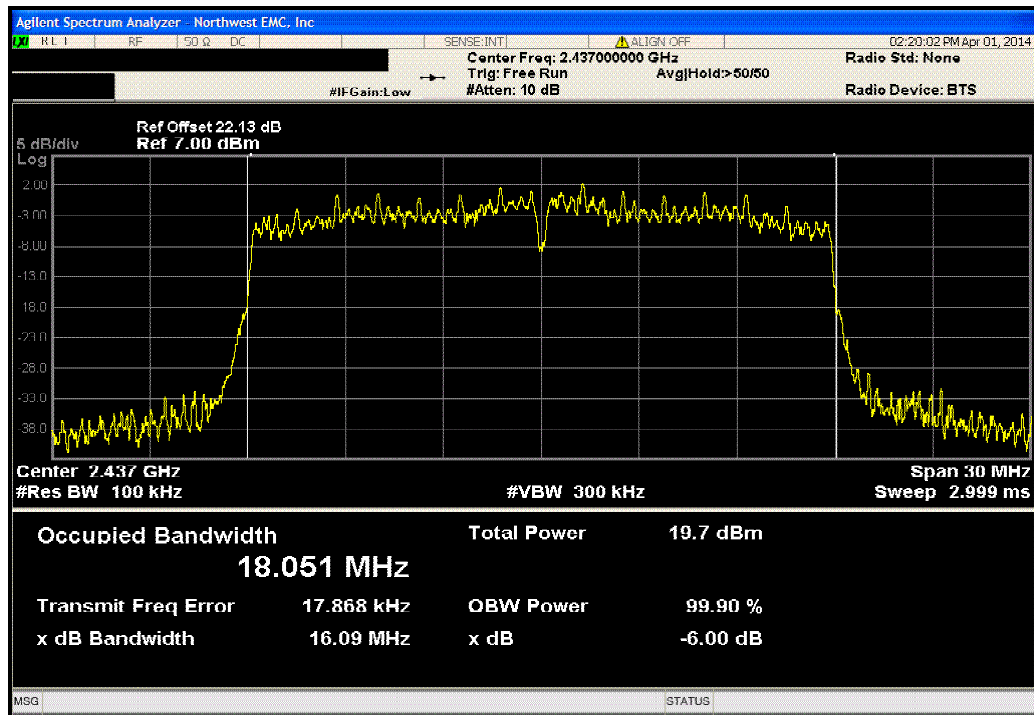
Antenna 1, 802.11(n) MCS7, Low Channel 1, 2412 MHz

	Value	Limit	Result
	15.707 MHz	> 500 kHz	Pass



Antenna 1, 802.11(n) MCS7, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				16.092 MHz	> 500 kHz	Pass



Antenna 1, 802.11(n) MCS7, High Channel 11, 2462 MHz

				Value	Limit	Result
				16.863 MHz	> 500 kHz	Pass

